

EXHIBIT 1

U.S. Department of Labor
Occupational Safety & Health Administration



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**Chemical Sampling Information:
Sodium Metasilicate**

General Description

Synonyms: Silicic Acid (H₂SiO₃) Disodium Salt; Crystamet; Disodium Metasilicate; Disodium Monosilicate; Orthosil; Metso Beads, Drymet; Sodium Metasilicate, Anhydrous; Sodium Silicate; Water Glass

OSHA IMIS Code Number: S245

Chemical Abstracts Service (CAS) Registry Number: 6834-92-0

NIOSH, Registry of Toxic Effects (RTECS) Identification Number: VV9275000

Chemical Description and Physical Properties: Usually obtained as a glass; also orthorhombic crystals. Usually prepared from sand (SiO₂) and soda ash (NaCO₃) by fusion. Soluble in cold water, hydrolyzed by hot water. Insoluble in alcohol, acids, salt solutions.

molecular formula: O₃Si•2Na

molecular weight: 122.07

melting point: 1089°C

Health Factors

Health Effects: Severe skin irritation; inhalation of dusts can irritate upper respiratory tract.

Monitoring Methods used by OSHA

Laboratory Sampling/Analytical Method:

- **note:** Call SLTC for instructions.

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